

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080520\  
 Data File : VD066128.D  
 Acq On : 05 Aug 2020 13:49  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICSV080520

Manual Integrations  
 APPROVED

MMDadoda  
 8/6/2020 1:54:31 PM

Quant Time: Aug 06 03:12:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 355562   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 511723   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 472939   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 239919   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 169299   | 53.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.74% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 174131   | 53.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.44% |      |
| 50) Toluene-d8            | 10.34  | 98  | 646304   | 54.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.06% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 227654   | 52.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.58% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 145459  | 46.434  | ug/l | 100    |
| 3) Chloromethane              | 2.20 | 50  | 114814  | 47.116  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.34 | 62  | 107637  | 49.892  | ug/l | 98     |
| 5) Bromomethane               | 2.76 | 94  | 71051   | 49.639  | ug/l | 95     |
| 6) Chloroethane               | 2.91 | 64  | 64354   | 48.595  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 278838  | 49.575  | ug/l | 99     |
| 8) Diethyl Ether              | 3.70 | 74  | 83483   | 52.603  | ug/l | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 168132  | 50.369  | ug/l | 99     |
| 10) Methyl Iodide             | 4.29 | 142 | 159314  | 52.099  | ug/l | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 60986   | 258.805 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 158277  | 50.264  | ug/l | 98     |
| 13) Acrolein                  | 3.92 | 56  | 59665   | 236.300 | ug/l | 98     |
| 14) Allyl chloride            | 4.71 | 41  | 248451  | 52.081  | ug/l | 99     |
| 15) Acrylonitrile             | 5.42 | 53  | 178365  | 266.708 | ug/l | 98     |
| 16) Acetone                   | 4.15 | 43  | 157968  | 262.452 | ug/l | 96     |
| 17) Carbon Disulfide          | 4.40 | 76  | 504919  | 50.431  | ug/l | 95     |
| 18) Methyl Acetate            | 4.71 | 43  | 77083   | 50.420  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 377916  | 52.361  | ug/l | 100    |
| 20) Methylene Chloride        | 4.96 | 84  | 180148  | 52.334  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 185649  | 51.322  | ug/l | 92     |
| 22) Diisopropyl ether         | 6.36 | 45  | 498845  | 52.879  | ug/l | 95     |
| 23) Vinyl Acetate             | 6.30 | 43  | 1486778 | 269.019 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 296040  | 50.707  | ug/l | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 223427  | 252.382 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 265938  | 50.823  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 195996  | 51.657  | ug/l | 100    |
| 28) Bromochloromethane        | 7.55 | 49  | 106614  | 51.994  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 142538  | 259.877 | ug/l | 100    |
| 30) Chloroform                | 7.71 | 83  | 312448  | 50.968  | ug/l | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 272087  | 48.959  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 290835  | 50.599  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 246412  | 51.244  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 102373  | 53.732  | ug/l | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 273819  | 51.063  | ug/l | 93     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 306859   | 52.789   | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 691111   | 51.809   | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.51  | 41   | 47477    | 42.381   | ug/l # | 82       |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 201479   | 51.414   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 200510   | 53.414   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 207169   | 51.539   | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 169454   | 51.940   | ug/l   | 95       |
| 46) Dibromomethane             | 9.47  | 93   | 92409    | 51.422   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.66  | 83   | 244583   | 51.495   | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.45  | 41   | 96310    | 50.245   | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 24384    | 1056.141 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 506321   | 262.584  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 455746   | 51.921   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 238109   | 52.826   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 280044   | 53.028   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 130391   | 50.389   | ug/l   | 92       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 168920   | 54.340   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 222445   | 51.780   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 354307   | 253.388  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 357411   | 264.111  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 180685   | 50.576   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 129796   | 52.156   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 184821   | 50.892   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 501629   | 52.249   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 189805   | 50.527   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 873472   | 52.501   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 664224   | 103.045  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 308214   | 52.563   | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 543515   | 52.890   | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 112501   | 50.547   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 855559   | 53.422   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 194897   | 55.264   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 143487   | 52.543   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 100784m  | 50.373   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 217944   | 52.865   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 1006317  | 54.055   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 561479   | 52.734   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 715914   | 53.452   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 49777    | 54.997   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 592285   | 52.695   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 634201   | 53.842   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 711292   | 53.066   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 861133   | 54.149   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 793219   | 53.181   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 398780   | 51.467   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 408728   | 52.894   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 729514   | 54.589   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 151150   | 50.811   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 351797   | 51.339   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 24258    | 51.684   | ug/l   | 98       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 264200   | 52.319 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 158924   | 53.444 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 452158   | 54.952 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 234230   | 52.543 | ug/l  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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